

1/14

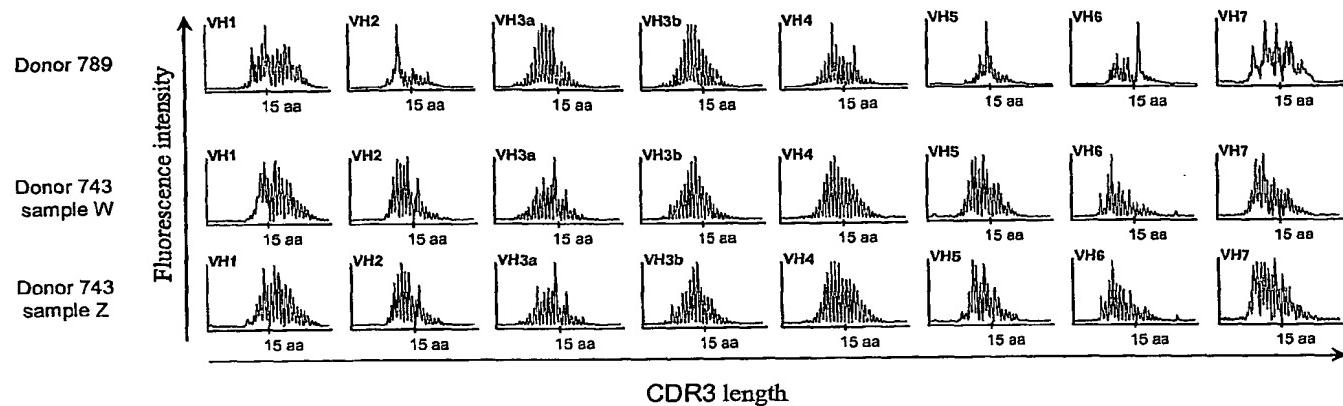


Figure 1A

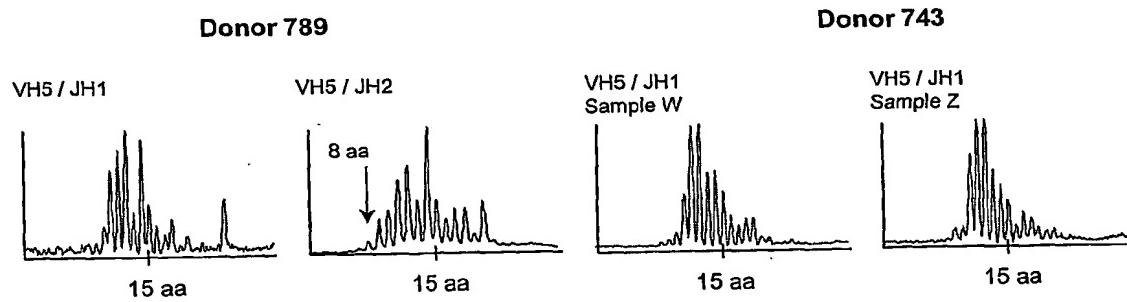


Figure 1B

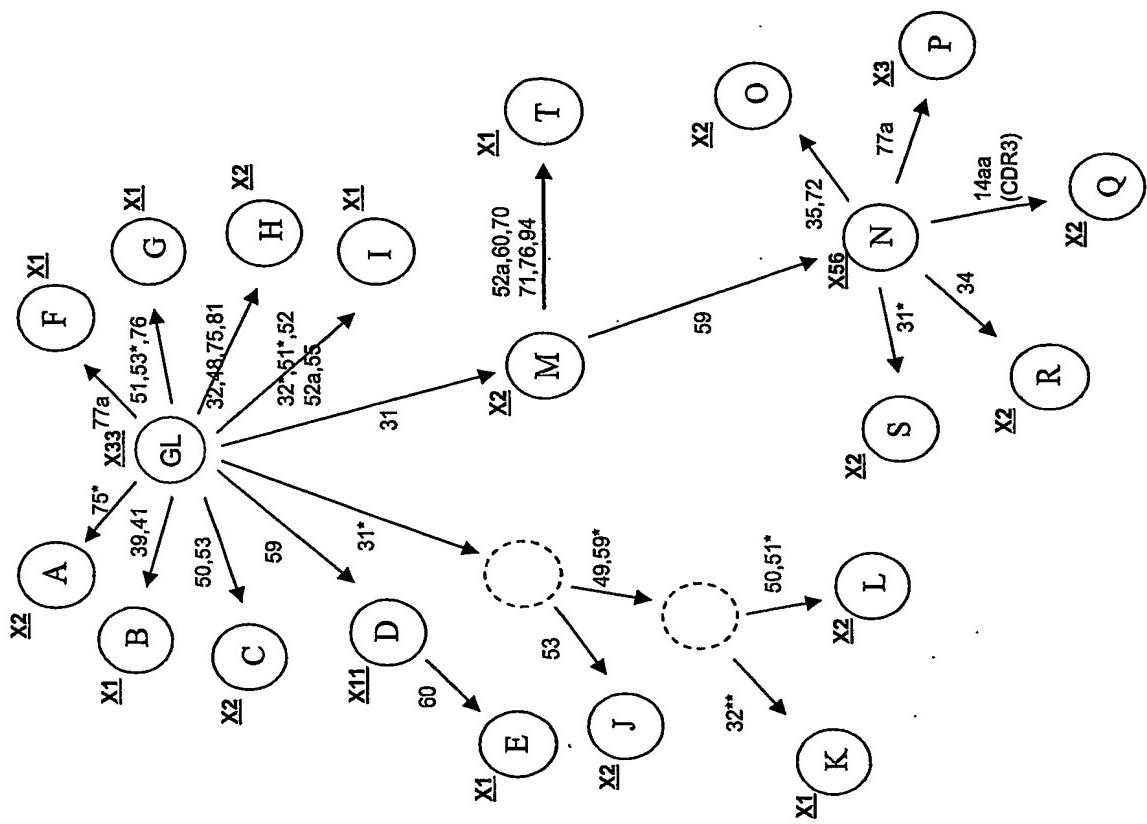


Figure 2B

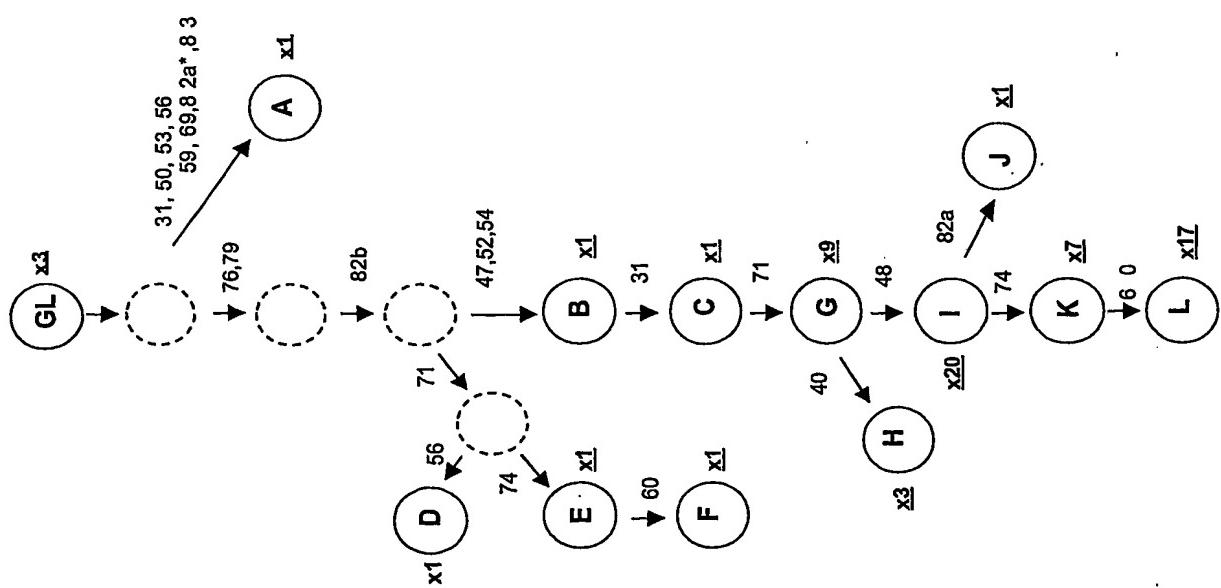


Figure 2A

Donor 743

Donor 743	tW-tov	tZ-tov	tov	tW+tZ	dW-dov	dZ-dov	dov	dW+dZ
seq. nb	517	488	268	1273	202	199	20	421
%	40,8	38,4	21	100	48	47,3	4,7	100

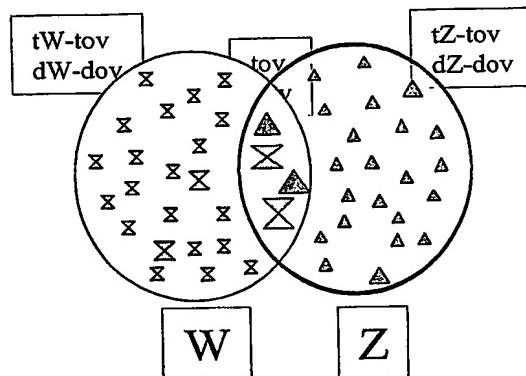


Figure 3A

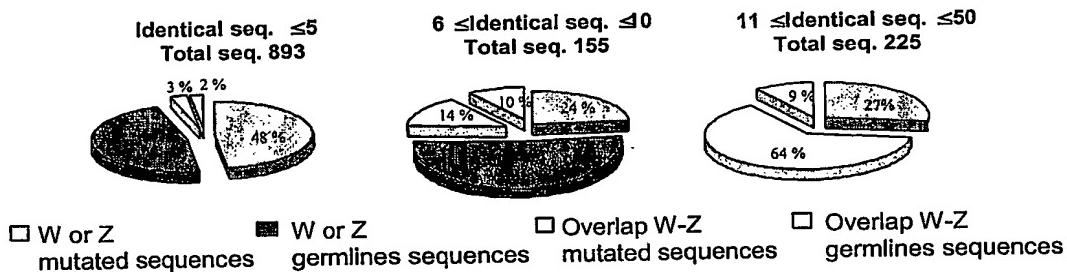


Figure 3B

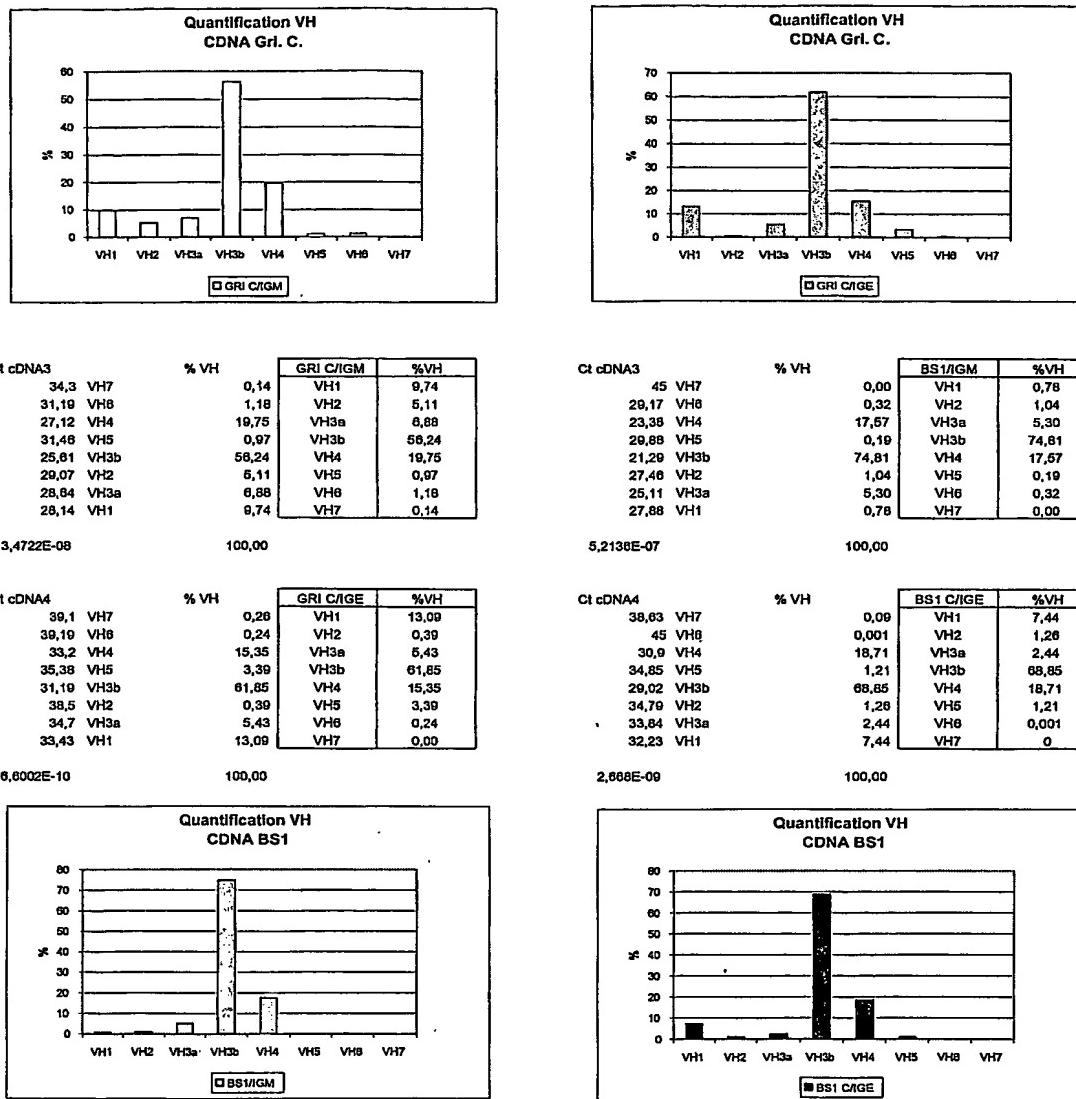


Figure 4

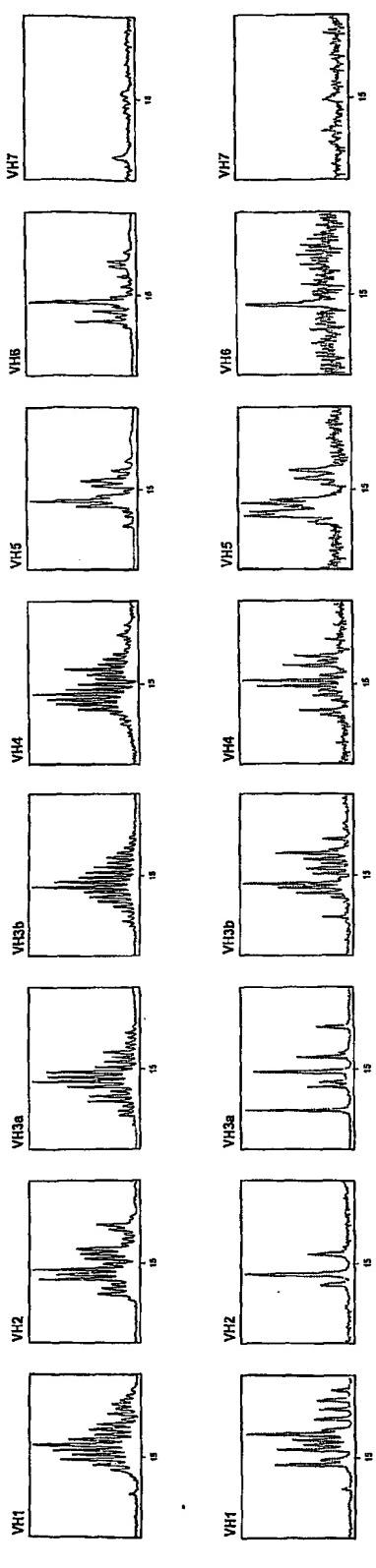
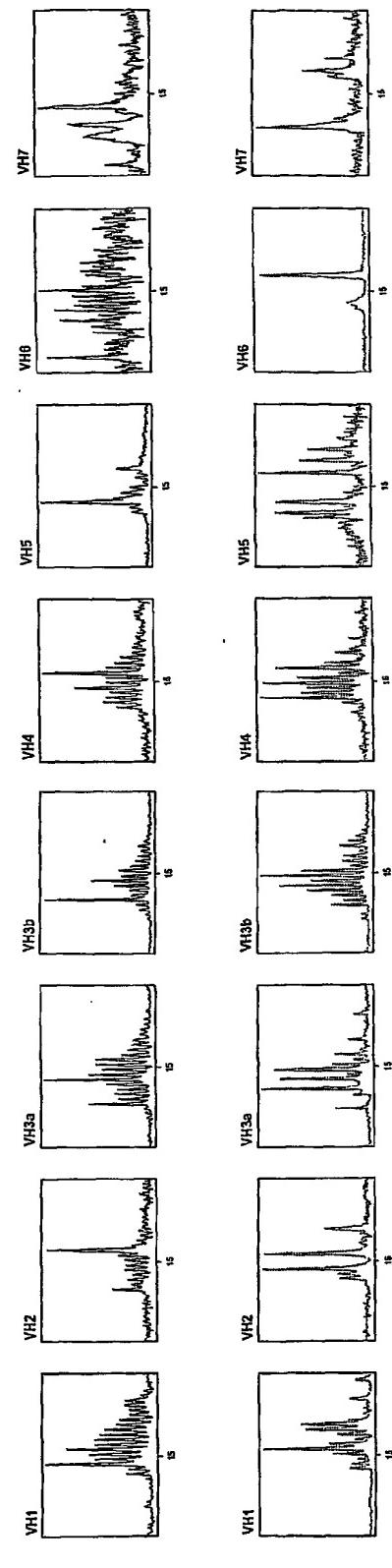
Gri. C.BS1

Figure 5

6/14

1	100
{a112_b10_039}	-----a---c----a---tag g-----
{a112_g05_018}	-----a---c----a---tag g-----
{a112_a05_024}	-----a---c----a---tag g-----
{a112_f08_027}	-----a---c----a---t-g g-----
{a112_h05_017}	-----a---c----a---t-g g-----
{a112_f10_035}	-----a---c----a---t-g g-----
{a112_d12_045}	-----a---c----a---t-g g-----
{a112_f01_003}	-----a---c----a---t-g g-----
{a112_c01_006}	-----a---c----a---t-g g-----
{a112_d07_029}	-----a---c----a---t-g g-----
{a112_a07_032}	-----a---c----a---t-g g-----
{a112_b07_031}	-----a---c----a---t-g g-----
{a112_d05_021}	-----a---c----a---t-g g-----
{a112_a09_040}	-----a---c----a---t-g g-----
{a112_f06_019}	-----a---c----a---t-g g-----
{a112_g03_010}	-----a---c----a---t-g g-----
{a112_h09_033}	-----a---c----a---t-g g-----
{a112_f05_019}	-----a---c----a---t-g g-----
{a112_e02_004}	-----a---c----a---t-g g-----
{a112_g01_002}	-----a---c----a---t-g g-----
germline IGHG1	-----a---c----a---t-g g-----
{a112_b02_007}	-----t-----t-g g-----
germline IGHG3	--t-----t-g g-----
{a112_h07_025}	-----
{a112_h01_001}	-----
{a112_f03_011}	-----
{a112_g06_018}	-----
{a112_c06_022}	-----
{a112_d06_021}	-----
{a112_b01_007}	-----
{a112_h12_041}	-----
{a112_g02_002}	-----
{a112_a02_008}	-----
germline IGHG2	-----c-----
{a112_e01_004}	--t-----c-----
{a112_a08_032}	--t-----c-----
{a112_c12_046}	--t-----c-----
{a112_f09_035}	--t-----c-----
{a112_c04_014}	c-t-----c-----
{a112_g08_026}	--t-----c-----
{a112_c02_006}	--t-----c-----
{a112_d08_029}	--t-----c-----
{a112_e06_020}	--t-----c-----
{a112_s06_024}	--t-----c-----
{a112_c09_038}	c-t-----c-----
{a112_g10_034}	--t-----c-----
{a112_e03_012}	--t-----c-----
{a112_f07_027}	--t-----c-----
{a112_g12_042}	--t-----c-----
germline IGHG4	--t-----c-----

Consensus GCCCTCCACCA AGGGCCCCATC GGTCTTCCCC CTGGCGCCCT GCTCCAGGAG CACCTCCGAG AGC ACAGCGG CCCCTGGGCTG CCTGGTCAG GACTACTTCC

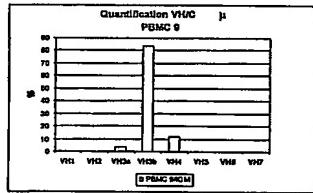
7/14

Cl cDNA	% VH	PDB ID	Protein	% VH
20.78	VH7	0.02	VH7	0.11
33.15	VH6	0.04	VH6	0.01
22.27	VH4	1.91	VH4	3.72
20.03	VH5	0.11	VH5	84.10
19.45	VH3	84.10	VH4	11.01
31.81	VH2	0.01	VH5	0.11
22.85	VH3a	3.72	VH6	0.01
23.00	VH1	0.11	VH7	0.03

Cl- DNA1	% VH	PRMG BMRG	% VH
50 VH7	6,00	VH1	0,04
42,81 VH8	0,00	VH2	0,00
31,06 VH4	0,10	VH3	2,11
50 VH5	0,00	VH4B	87,75
28,29 VH3B	87,75	VH4	9,10
33,11 VH2	0,00	VH5	0,00
39,23 VH1	0,11	VH6	0,00
	0,04	VH7	9,00

Cl-DNA1	% VH	DPM/BGCO	% VH
37.01 VH7	0.02	VH1	0.43
30.19 VH8	0.03	VH2	0.10
29.49 VH4	7.12	VH3a	3.23
32.85 VH5	0.02	VH3b	0.02
24.85 VH6	84.78	VH4	7.12
34.87 VH2	0.10	VHS	0.32
29.03 VH3e	3.23	VH8	0.02
32.84 VH1	0.43	VH7	0.02

Quantification VHC



Ct cDNA2	% VH	cDNA 10/9/24	% VH	
33.85	VH7	0.04	VH1	0.21
35.00	VH8	0.04	VH2	0.02
35.85	VH4	13.14	VH3	4.00
31.55	VH5	0.23	VH10	62.80
22.85	VH3b	82.80	VH4	12.14
37.03	VH2	0.00	VH5	0.20
27.05	VH6	4.90	VH5	0.00
31.62	VH7	0.21	VH7	0.04

Cl cDNA2	% VH3	cDNA 19/20/21	% VH4
50 VH7	0,00	VH1	0,00
50 VH5	0,00	VH2	0,00
37,75 VH6	0,78	VH3e	0,32
50 VH4	0,00	VH3d	0,00
30,75 VH2d	0,00	VH3c	0,00
50 VH2	0,00	VH4	0,75
33,04 VH4d	0,22	VH5	0,00
00 VH1	0,00	VH3	0,00
		VH7	0,00

Cl cDNA2	% VH	cDNA 10,000	% VH
44,34 VH7	0,00	VH1	1,89
33,8 VH8	0,38	VH2	
32,51 VH4	3,21	VH3a	4,33
33,72 VH5	0,17	VH3b	60,02
27,7 VH6	0,02	VH4	1,14
40,31 VH2	0,01	VH5	0,17
32,07 VH1a	4,35	VH6	0,16
33,3 VH1	1,95	VH7	0,09

Quantification VHIC

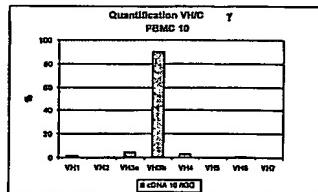
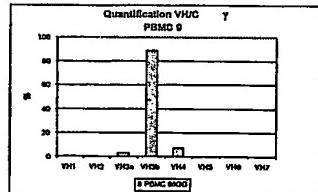
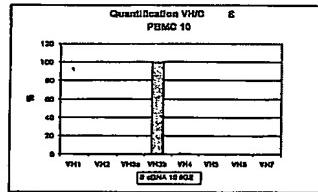
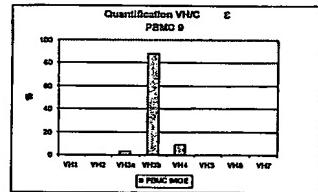
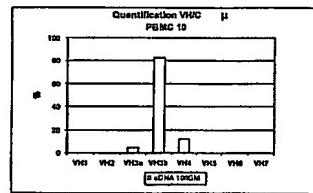


Figure 7

8/14

Ct cDNA1	% VH	cDNA9/IGM	%VH
30,75	VH7	0,03	VH1 0,11
33,15	VH8	0,01	VH2 0,01
22,27	VH4	11,82	VH3a 3,63
29,03	VH5	0,11	VH3b 82,09
19,45	VH3b	82,09	VH4 11,82
31,01	VH2	0,01	VH5 0,11
23,05	VH3a	3,63	VH6 0,01
29,08	VH1	0,11	VH7 0,03
		cDNA9/IGE	%VH
50	VH7	5,2E-08	VH1 0,00
42,01	VH8	7,1E-06	VH2 0,00
31,66	VH4	1,0E-02	VH3a 0,01
50	VH5	6,2E-08	VH3b 0,18
28,29	VH3b	1,6E-01	VH4 0,02
50	VH2	5,2E-08	VH5 0,00
33,11	VH3a	6,3E-03	VH6 0,00
39,26	VH1	9,0E-05	VH7 0,00
		cDNA9/IGG	%VH
37,01	VH7	4,2E-04	VH1 0,0
38,19	VH8	7,5E-04	VH2 0,0
28,49	VH4	1,6E-01	VH3a 0,1
32,65	VH8	7,1E-03	VH3b 1,9
24,65	VH3b	1,6E+00	VH4 0,2
34,67	VH2	2,2E-03	VH5 0,0
29,83	VH3a	7,1E-02	VH6 0,0
32,54	VH1	9,4E-03	VH7 0,0

Ct cDNA2	% VH	cDNA10/IGM	%VH
33,86	VH7	0,04	VH1 0,20
38,9	VH8	0,00	VH2 0,00
25,65	VH4	11,72	VH3a 4,44
31,55	VH5	0,20	VH3b 79,91
22,86	VH3b	78,91	VH4 11,72
37,03	VH2	0,00	VH5 0,20
27,05	VH3a	4,44	VH6 0,00
31,52	VH1	0,20	VH7 0,04
		cDNA10/IGE	%VH
50	VH7	5,48E-07	VH1 0,00
50	VH8	5,48E-07	VH2 0,00
37,73	VH4	2,71E-03	VH3a 0,00
50	VH5	5,48E-07	VH3b 0,34
30,75	VH3b	3,42E-01	VH4 0,00
50	VH2	5,48E-07	VH5 0,00
39,04	VH3a	1,00E-03	VH6 0,00
50	VH1	5,48E-07	VH7 0,00
		cDNA10/IGG	%VH
44,34	VH7	2,77E-05	VH1 0,06
35,6	VH8	1,16E-02	VH2 0,00
32,51	VH4	1,01E-01	VH3a 0,14
38,72	VH5	5,45E-03	VH3b 2,63
27,7	VH3b	2,63E+00	VH4 0,10
40,31	VH2	4,63E-04	VH5 0,01
32,07	VH3a	1,37E-01	VH6 0,01
33,3	VH1	5,63E-02	VH7 0,00

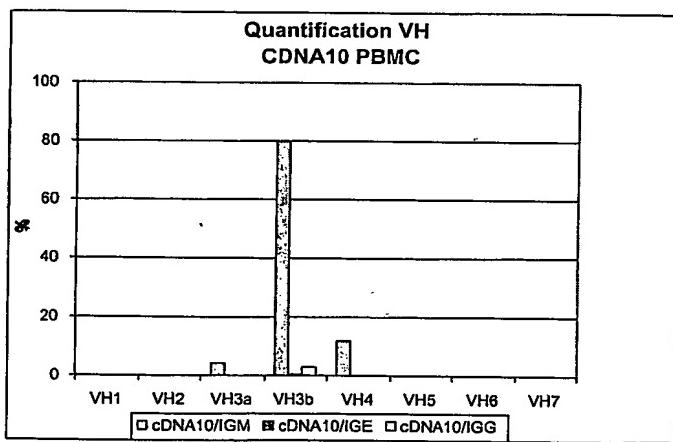
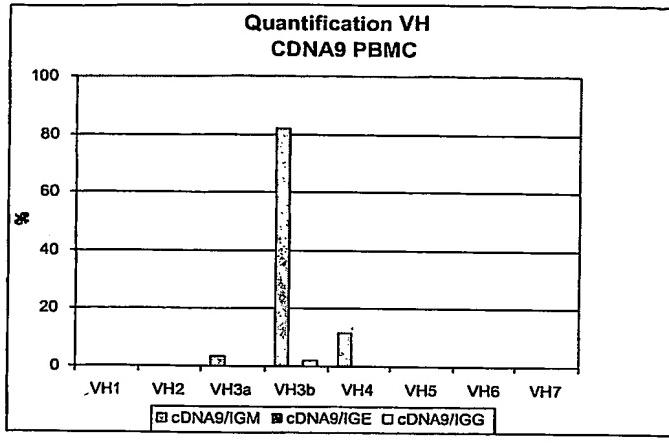
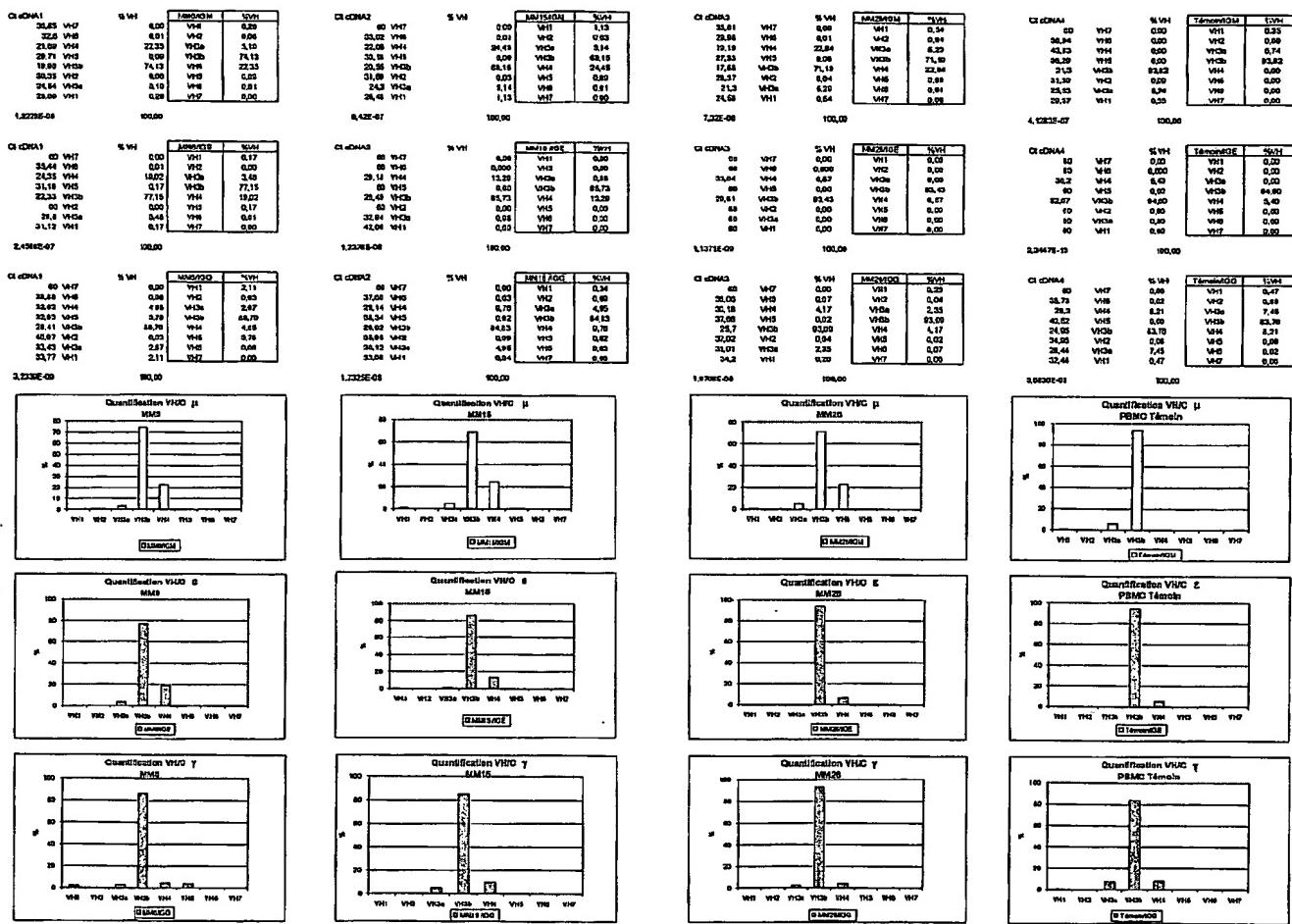


Figure 8



Figure 9

10/14



11/14

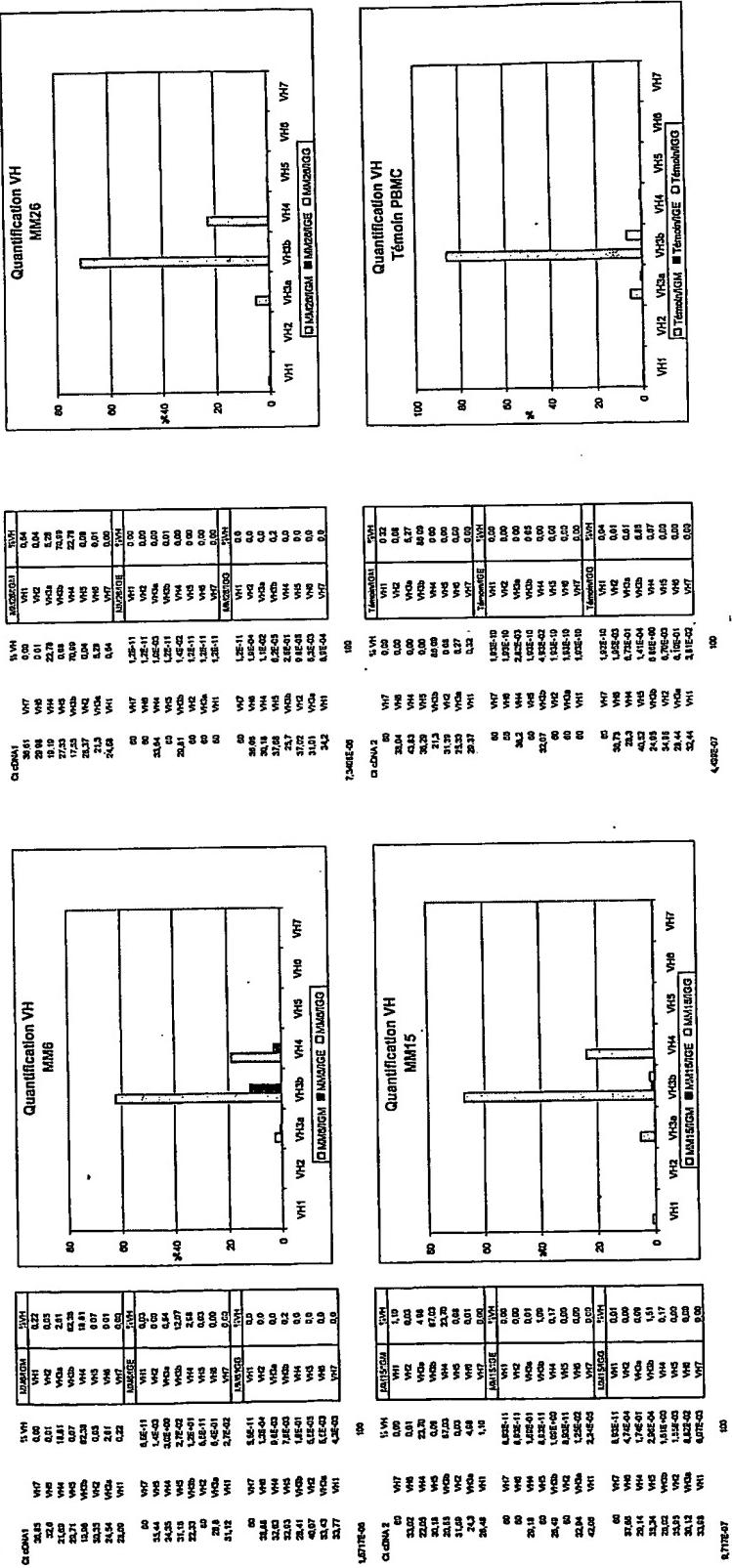


Figure 11

12/14

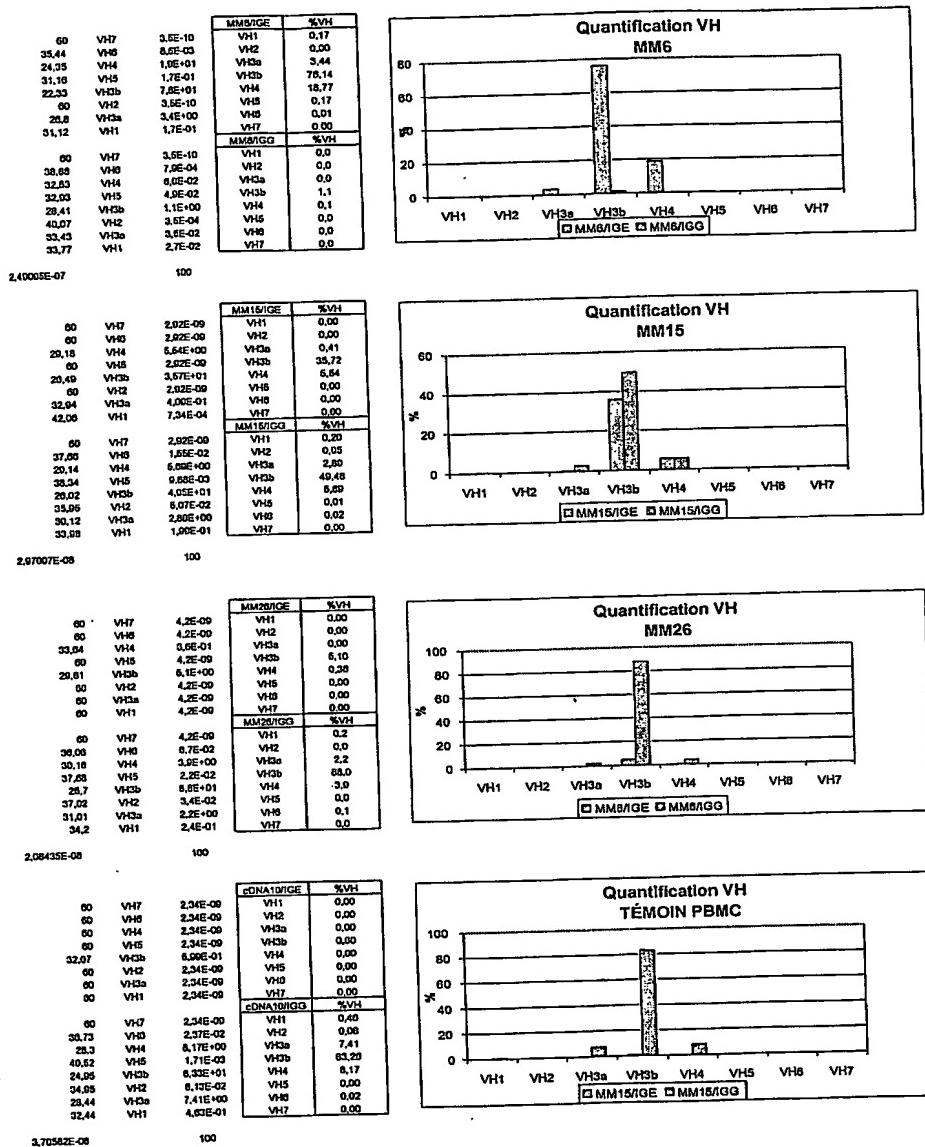


Figure 12

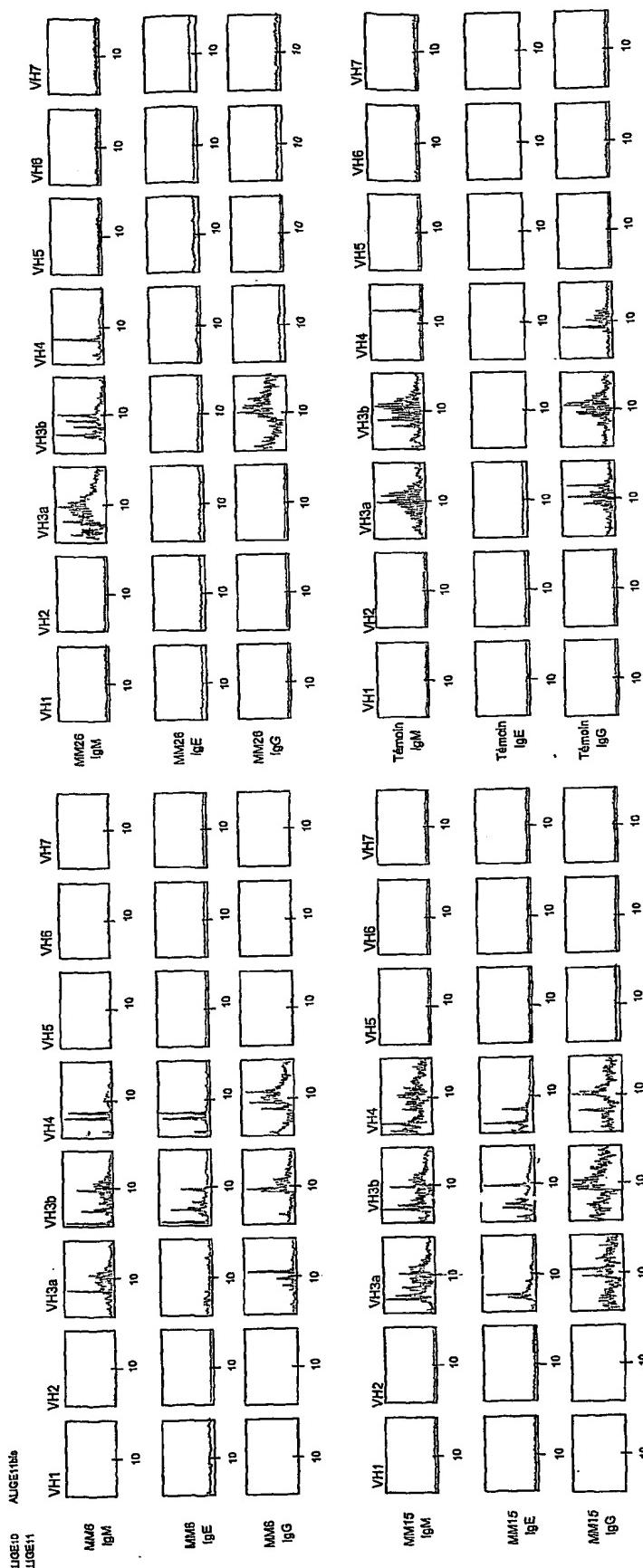


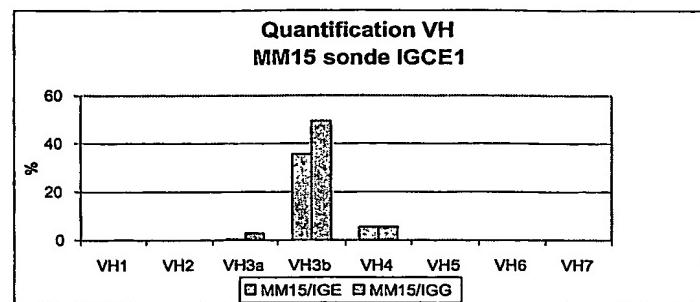
Figure 13

IGE12

60	VH7	2,9E-09
60	VH6	2,9E-09
29,18	VH4	6,5E+00
60	VH5	2,9E-09
28,49	VH3b	3,6E+01
60	VH2	2,9E-09
32,94	VH3a	4,1E-01
42,08	VH1	7,3E-04
60	VH7	2,9E-09
37,66	VH6	1,6E-02
29,14	VH4	5,7E+00
38,34	VH5	9,7E-03
26,02	VH3b	4,6E+01
35,85	VH2	5,1E-02
30,12	VH3a	2,9E+00
33,98	VH1	2,0E-01

MM15/GE	%VH
VH1	0,00
VH2	0,00
VH3a	0,41
VH3b	35,72
VH4	5,54
VH5	0,00
VH6	0,00
VH7	0,00

MM15/GG	%VH
VH1	0,2
VH2	0,1
VH3a	2,9
VH3b	49,5
VH4	5,7
VH5	0,0
VH6	0,0
VH7	0,0



2,97007E-08

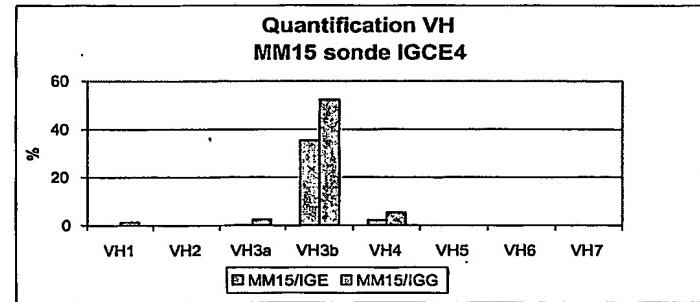
100

IGE11

60	VH7	1,61E-09
60	VH6	1,61E-09
29,58	VH4	2,35E+00
40,25	VH5	1,42E-03
25,84	VH3b	3,55E+01
60	VH2	1,61E-09
33,62	VH3a	1,41E-01
35,23	VH1	4,61E-02
60	VH7	1,61E-09
35,22	VH6	4,64E-02
28,35	VH4	5,43E+00
38,9	VH5	1,45E-02
25,08	VH3b	6,24E+01
38,4	VH2	2,05E-02
29,41	VH3a	2,60E+00
30,26	VH1	1,44E+00

MM15/GE	%VH
VH1	0,05
VH2	0,00
VH3a	0,14
VH3b	35,53
VH4	2,35
VH5	0,00
VH6	0,00
VH7	0,00

MM15/GG	%VH
VH1	1,44
VH2	0,02
VH3a	2,60
VH3b	52,38
VH4	5,43
VH5	0,01
VH6	0,05
VH7	0,00



5,38302E-08

100

Figure 14